

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	3754	(first adj antenna) and (second adj antenna)	USPA T; EPO; JPO; DER WENT ; IPM.T	2003/01/15 08:41	
2	BRS	L2	967	1 and (perpendicular or orthogonal)	USPA T; EPO; JPO; DER WENT ; IPM.T	2003/01/15 08:42	
3	BRS	L3	2	2 and (external adj antenna) and (built-in adj antenna)	USPA T; EPO; JPO; DER WENT ; IPM.T	2003/01/15 08:49	
4	BRS	L4	2	2 and (tunable adj antenna)	USPA T; EPO; JPO; DER WENT ; IPM.T	2003/01/15 08:50	
5	BRS	L5	6	1 and (tunable adj antenna)	USPA T; EPO; JPO; DER WENT ; IPM.T	2003/01/15 08:50	



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(43) **Pub. Date: Jan. 2, 2003**(54) **ANTENNA DEVICE AND PORTABLE  
TERMINAL**(86) PCT No.: **PCT/JP00/07637****Publication Classification**(76) Inventors: **Hideaki Shoji**, Hyogo (JP); **Yasuhito  
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ARLINGTON, VA 22202 (US)**(57) **ABSTRACT**

An antenna device (3a) includes a substrate (11) and an antenna (21) provided on the substrate (11) and having an electrical length of  $(\lambda/2) \times A$  (A is an integer). The antenna (21) includes a plate antenna (21b) positioned at a portion where an electrical length from an end portion (21d) is approximately  $\lambda/4 + (\lambda/2) \times B$  (B is an integer), and a meander line antenna (21a, 21c) connected to the plate antenna (21b).

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